INTELLOFA)	TELLOTAX 36 X 3 pproved For Release 2003/12/10 CLASSIFICATION ALGRED CENTRAL INTELLIGEN		0A003500140005-3 REPORT NO 25X1A
	NFORMATION	REPORT	CD NO
COUNTRY	East Germany, Development of Electronic Microsw Number 2748	oscope	DATE DISTR 10 February 1954 NO. OF PAGES 1
PLACE ACQUIRED DATE OF INFO.		25X1A	NO OF ENCLS- (LISTED BELOW) SUPPLEMENT TO REPORT NO.
AND 706. OF THE E. S. CO	ENFORMATION AFFECTING THE WATIONAL DEFENSE THIS THE MEACHING OF THE 18, SECTIONS 702, DIE, AN AMERICAN, 175 TRANSMISSION OR GEVEL TO 30 RECEIPT BY AN UNDUSTRICED FERSON OF THE PRODUCTION OF THIS FORM IS FORMING.	THIS IS UNEV	ALUATED INFORMATION 25X1X

- The improved electron microscope under development at OSW is called Electron Microscope OSW Type Number 2748. It focuses electromagnetically. The maximum electron current (Strahlapannung) amounts to 100,000 V. The microscope is adapted for azimuthal illumination. The electronic magnification of the device is 100,000:1. The final picture (Endbild) can be magnified ten times optically. The total magnification, therefore, amounts to 1,000,000:1. The microscope is complete with pump and voltage stabilizer.
- The resolving power of the microscope amounts to one to two millionths of a millimeter. The high degree of uniformity of the coil current (Spulenstroeme) is attained by means of an electronic stabilizing device. Built into the microscope are special devices which give a signal when disturbances occur in the instrument. Because of the special construction of the device, it is possible to record directly the diffraction image of the substance which is being tested. The container for the photographic plate or the film can be inserted or taken out, so that it is also possible to use the electron microscope as a source of electrons for physical measurements.

25X1A

Cl	ASSIFICATION	The second section of the second seco	
ARMY X AIC	v NSRB	DISTRIBUTION	